

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5005469.003PC1	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/036667	International filing date (day/month/year) 03/11/2004	(Earliest) Priority Date (day/month/year) 04/11/2003
Applicant SUPERPOWER, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A tape-manufacturing system (10) for coating at least one tape substrate (28) such as, for example, for the manufacture of a high-temperature superconductor (HTS) conductor is disclosed. The tape-manufacturing system includes at least two electron beam (e-beam) deposition sources (12), at least one assist source (14) and, optionally, a controller (16). Each e-beam deposition source (12) may be in-process repairable. Each e-beam deposition source (12) is capable of communicating an evaporant material with at least a portion of at least one tape substrate (28) to deposit a coating thereon. The at least one assist source (14) is capable of communicating a beam of a species to the coating. The controller (16) communicates with the at least two e-beam deposition sources (12) and the at least one assist source (14).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C23C14/56 C23C14/30 H01L39/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C23C H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 201 (C-184), 6 September 1983 (1983-09-06) & JP 58 100676 A (MATSUSHITA DENKI SANGYO KK), 15 June 1983 (1983-06-15) abstract	43-51,67
Y	US 2003/157742 A1 (HONDA KAZUYOSHI ET AL) 21 August 2003 (2003-08-21)	1-42
X	page 10, paragraph 166; figure 24 page 14, paragraph 201 page 15, paragraph 210 - page 16, paragraph 213	1,66,68
Y	US 2002/081371 A1 (CHEONG DAN DAEWEON) 27 June 2002 (2002-06-27) page 4, paragraph 51; claims 1-44; figure 2	1-42
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

24 February 2005

Date of mailing of the international search report

07/03/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 468 488 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 29 January 1992 (1992-01-29) column 12, line 25 - line 55; figure 5 -----	1-68

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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